

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Longshot Oil, LLC
Well Name/Number: 15-13 Bauwens
Location: SW SE Section 13 T5S R24E
County: Carbon, **MT;** **Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 3 to 4 days drilling time.

Unusually deep drilling (high horsepower rig): No, single derrick drilling rig, 1850' TD

Possible H2S gas production: Possible.

In/near Class I air quality area: Near Class I air quality area, Crowe Indian Reservation.

Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

☒ Air quality permit (AQB review)

☐ Gas plants/pipelines available for sour gas

☐ Special equipment/procedures requirements

☐ Other: _____

Comments: No special concerns – using small rig to drill to 1850' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater or freshwater mud system and/or air.

High water table: No high water table anticipated.

Surface drainage leads to live water: No, closest drainage is the North Fork Five Mile Creek. Within the North Fork Five Mile Creek is a stock pond, about 1 3/8 of a mile to the northwest of this location.

Water well contamination: No, closest water wells are about 1 mile to the south southwest and about 1 mile to the northeast from this location and is only 380' and 341' in depth. Surface hole will be drilled with freshwater and surface casing run and cemented from 150' to surface. Mainhole will be drilled with air, air/mist and mud. If productive 7" production casing will be cemented to surface.

Porous/permeable soils: No, silty sandy clay soils.

Class I stream drainage: No Class I stream drainage.

Mitigation:

☐ Lined reserve pit

☒ Adequate surface casing

☐ Berms/dykes, re-routed drainage

☐ Closed mud system

☐ Off-site disposal of solids/liquids (in approved facility)

☐ Other: _____

Comments: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, air, air/mist and fresh water mud systems to be used. 7" production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, stream crossings anticipated.

High erosion potential: No, small cut, up to 4.6' and small fill, up to 5.0', required.

Loss of soil productivity: No, location will be restored after drilling in nonproductive and if productive unused portion of the drillsite will be reclaimed.

Unusually large wellsite: No, 150'X160' location size required.

Damage to improvements: Slight, surface use is a CRP field.

Conflict with existing land use/values: Slight

Mitigation

☐ Avoid improvements (topographic tolerance)

☐ Exception location requested

☒ Stockpile topsoil

☐ Stream Crossing Permit (other agency review)

☒ Reclaim unused part of wellsite if productive

☐ Special construction methods to enhance reclamation

☐ Other _____

Comments: Surface access will be over existing county roads, Pryor and Sheller Roads and will utilize existing ranch access trails. About 1472' of new access will be built into this location. Cuttings will be buried in the earthen pit. Fluids will be allowed to evaporate. Pit will be backfilled when dry. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence is about ½ of a mile to the southeast of this location. The town of Fromberg about 9.5 miles to the west and the town of Pryor, about 10 miles to the northeast of this location.

Possibility of H₂S: Slight

Size of rig/length of drilling time: Small drilling rig/short 3 to 4 days drilling time

Mitigation:

☐ Proper BOP equipment

☐ Topographic sound barriers

☐ H₂S contingency and/or evacuation plan

☐ Special equipment/procedures requirements

☐ Other: _____

Comments: BOP required due to faulted geology of the area and no nearby drilling.

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Chief Plenty Coups Memorial Park Grave about 9 miles to the northeast of this location. Bluewater State Hatchery site about 6.5 miles to the southwest of this location.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: Threatened or endangered species are the Canada Lynx, Black-Footed Ferret and Grizzly Bear. Candidate specie is the Greater

Sage Grouse. Proposed specie is the Mountain Plover. Experimental nonessential specie is the Gray Wolf.

Mitigation:

- ☐ Avoidance (topographic tolerance/exception)
- ☐ Other agency review (DFWP, federal agencies, DSL)
- ☐ Screening/fencing of pits, drillsite
- ☐ Other: _____

Comments: No concerns. Private surface land, CRP.

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified

Mitigation

- ☐ avoidance (topographic tolerance, location exception)
- ☐ other agency review (SHPO, DSL, federal agencies)
- ☐ Other: _____

Comments: No concerns. On private surface land, CRP.

Social/Economic

(possible concerns)

- ☐ Substantial effect on tax base
- ☐ Create demand for new governmental services
- ☐ Population increase or relocation

Comments: No concerns.

Remarks or Special Concerns for this site

Well is a 1850' Tensleep Formation test. Tensleep can flow large volumes of freshwater.

Summary: Evaluation of Impacts and Cumulative effects

No long term impact expected. Some short term surface impacts will occur, but will be mitigated in time.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki
(title:) Chief Field Inspector
Date: September 11, 2010

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC
website

(Name and Agency)

Water wells in Carbon County

(subject discussed)

September 11, 2010

(date)

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA
COUNTIES, Carbon County

(subject discussed)

September 11, 2010

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____